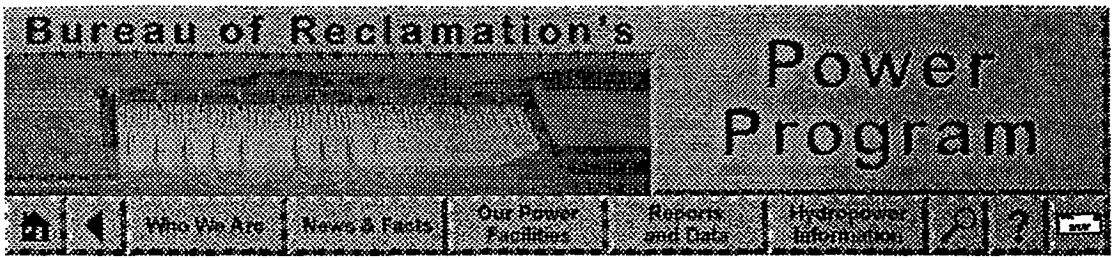
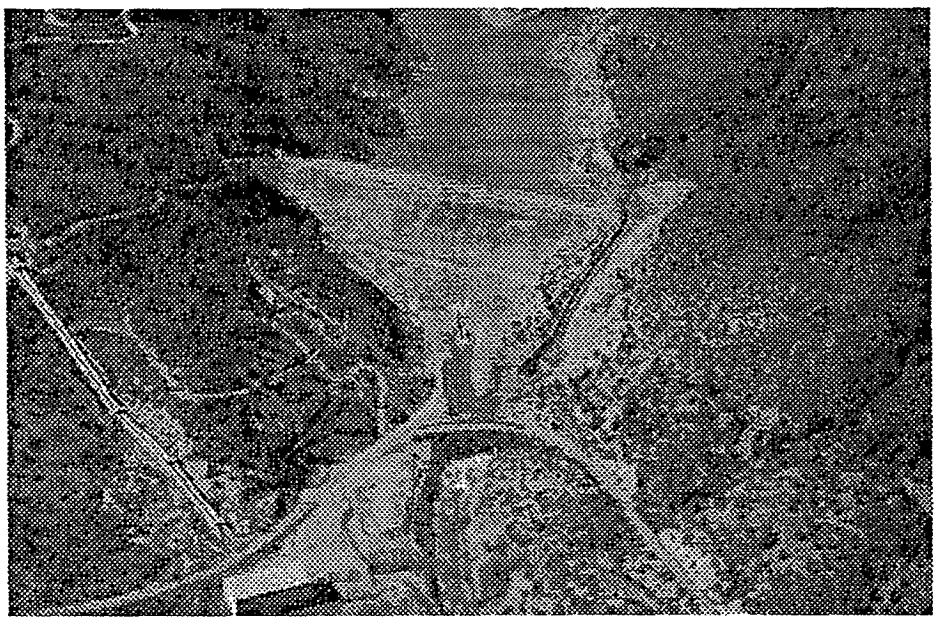
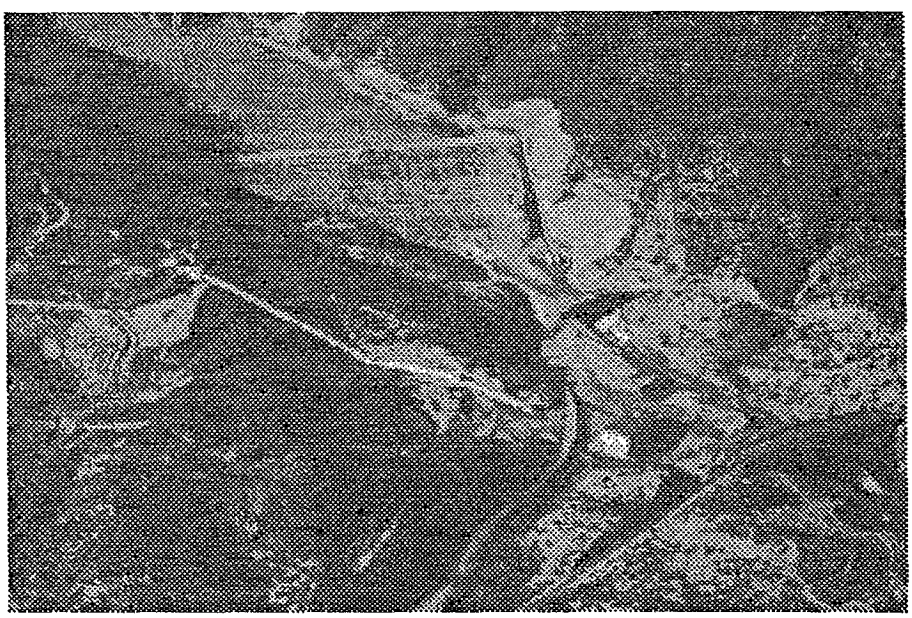


Spring Creek Powerplant



Spring Creek Dam and Powerplant



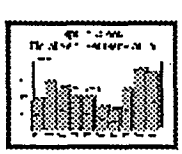
Spring Creek Dam and Powerplant

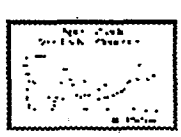
Plant Contact:	Mike Ryan Area Manager, Northern California Area Office
Plant Address:	Redding Powerplant Redding, CA 96003
Telephone Numbers:	Phone: (916) 275-1554 Fax: (916) 275-2441
E-Mail Address:	mryan@mp.usbr.gov
Reclamation Region:	Mid-Pacific
NERC Region:	Western Systems Coordinating Council, California-Southern Nevada Power Area
PMA Service Area:	Western Area Power Administration, Sierra Nevada Region
Project Authorization:	Funds for construction of the initial features of the Central Valley Project were provided by the Emergency Relief Appropriation Act of 1935 (49 Stat. 115). The Secretary of the Interior authorized the project and the President approved it on December 2, 1935. The Shasta and Trinity River Division was authorized by Public Law 386, 84th Congress, 1st Session, approved August 12, 1955.
Project Purposes:	The Central Valley Project, one of the Nation's major water conservation developments, extends from the Cascade Range on the north to the semiarid but fertile plains along the Kern River on the south. Initial features of the project were built primarily to protect the Central Valley from crippling water shortages and menacing floods. New project units were built to provide water and power to match the continued growth of the State. Although developed primarily for irrigation, this multiple-purpose project also provides flood control, improves Sacramento River navigation, supplies domestic and industrial water, generates electric power, conserves fish and wildlife, creates opportunities for recreation, and enhances water quality.
Plant Location:	Spring Creek Powerplant is located in Shasta County, California, on the Spring Creek arm of Keswick Reservoir near Redding, California.
Plant Facts:	Spring Creek Powerplant is at the foot of Spring Creek Debris Dam. The dam is an earth-fill structure, 196 feet high with a crest length of 1,110 feet. Water for power is received through Spring Creek Tunnel which diverts water from Whiskeytown Lake on Clear Creek. Water from the plant is discharged to Keswick Reservoir.
Plant Purpose:	Spring Creek Powerplant is a peaking plant. Its power is dedicated first to meeting the requirements of the project facilities. The remaining nergy is marketed to various preference customers in northern California.

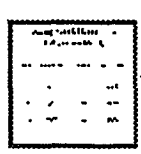
C—073128

C-073128

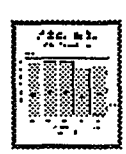
Plant History:	These facilities were built and are operated by Reclamation. Transmission lines were operated by Reclamation until October 1, 1977, when they were transferred to the Western Area Power Administration, Department of Energy
Present Activities:	Normal operations
Future Planned Activities:	None
Special Issues:	Spring Creek operation is tied to flow regimes aimed at minimizing the building of metal concentrations in the Spring Creek arm of the Keswick Reservoir. Trinity County has first preference to the power benefit of the Central Valley Project from Spring Creek Powerplant.
River:	Spring Creek
Plant Type:	Conventional
Powerhouse Type:	Above Ground
Turbine Type:	Francis
Original Nameplate Capacity:	150,000 kW
Installed Capacity:	180,000 kW
Year of Initial Operation:	1964
Age:	33 years
Net Generation: (FY 1996)	680,992,567 kWh
Rated Head:	566 feet
Plant Factor: (FY 1996)	43.2 percent
Remotely Operated:	Yes
Production Mode:	Peaking


Fiscal Year Net Generation

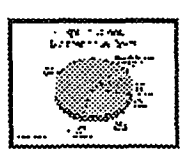

Monthly Net Generation


Generators

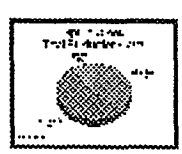

Workforce

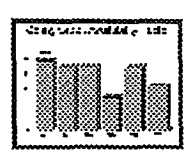

Wholesale Firm Rate


Operation Costs


Maintenance Costs


O&M Costs


Production Costs


Availability Factor

C—073129

C-073129